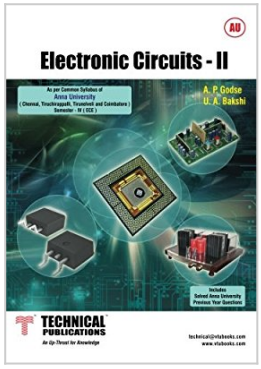

ELECTRONIC CIRCUITS - II

By A P Godse, U A Bakshi

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Feedback Amplifiers Block diagram, Loop gain, Gain with feedback, Effects of negative feedback - Sensitivity and desensitivity of gain, Cut-off frequencies, Distortion, Noise, Input impedance and output impedance with feedback, Four types of negative feedback connections - Voltage series feedback, Voltage shunt feedback, Current series feedback and current shunt feedback, Method of identifying feedback topology and feedback factor, Nyquist criterion for stability of feedback amplifiers. Oscillators Classification, Barkhausen criterion - Mechanism for start of oscillation and stabilization of amplitude, General form of an oscillator, Analysis of LC oscillators - Hartley, Colpitts, Clapp, Franklin, Armstrong, Tuned collector oscillators, RC oscillators - Phase shift - Wienbridge - Twin-T oscillators, Frequency range of RC and LC oscillators, Quartz crystal construction, Electrical equivalent circuit of crystal, Miller and Pierce crystal oscillators, Frequency stability of oscillators. Tuned Amplifiers Coil losses, Unloaded and loaded Q of tank circuits, Small signal tuned amplifiers - Analysis of capacitor coupled single tuned amplifier - Double tuned amplifier - Effect of cascading single tuned and double tuned amplifiers on bandwidth - Stagger tuned amplifiers - Large signal tuned amplifiers - Class C tuned amplifier - Efficiency and applications of class C tuned amplifier - Statbility tuned amplifiers - Neutralization - Hazeltine neutralization method. Wave Shaping and Multivibrator Circuits RC and RL integrator and differentiator circuits - Storage, Delay and calculation of transistor switching times - Speed-up capaitor - Diode clippers, Diode comparator - clampers. Collector coupled and emitter coupled astable multivibrator - Monostable multivibrator - Bistable multivibrators - Triggering methods for bistable multivibrators - Schmitt trigger circuit. Blocking Oscillators and Timebase Generators UJT sawtooth waveform generator, Pulse transformers - Equivalent circuit - Response - Application, Blocking oscillator - Free running blocking oscillator - Astable blocking oscillators with base timing - Push-pull astable blocking oscillator with emitter timing, Frequency control using core saturation, Triggered blocking oscillator - Monostable blocking oscillator with base timing - Monostable blocking oscillator with emitter timing, Time base circuits - Voltage - Time base circuit, Current-Time base circuit - Linearization through adiustment of driving waveform.

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